AUTHOR INDEX

Abe-Dohmae S. 93
Abood L. G. 9
Aghajanian G. K. 509
Ahlman H. 331
Aihara H. 67
Aiuchi T. 59
Alberch J. 107
Alberghina M. 599
Allgaier C. 149
Alonso R. 457
Appel R. 609
Arai Y. 59, 587
Arenas E. 107
Avendano G. 117
Azuma M. 21

Banchelli G. 215
Barnett N. L. 177
Becker C. 197
Bertel O. 263
Blazynski C. 425
Boekhoff I. 553
Bondy S. C. 435, 615
Bothmer J. 27
Bourre J.-M. 573
Bradberry C. W. 509
Breer H. 553
Brockerhoff H. 15
Brockerhoff S. 15
Buffoni F. 215
Burnstock G. 357

Callingham B. A. 215
Cano J. 415
Cánovas-Muñoz M. D. 35
Cardinali D. P. 373
Carvalho A. P. 401
Casteels R. 297
Cavallini D. 547
Clow A. 321
Cohen A. I. 425
Contreras P. C. 1
Coper H. 281
Costa M. 547
Cuello A. C. 205
Cui J. 271
Cunningham J. R. 495

Dagerlind Å. 343
Dahlström A. 331
De Backer J.-P. 537
Delicado E. G. 523
Denney R. M. 331
De Vos H. 537
DeVries G. 425
Drew C. A. 43
Droogmans G. 297
Dumont O. 573
Dupre S. 547
Dwivedy A. K. 467
Dyck L. E. 77

Ebadi M. 441
Ebinger G. 537
Elliott J. 215
Eneroth P. 343
Evans D. 449

Fähndrich Ch. 281
Ferrendelli J. A. 425
Fillenz M. 303
Fischer M. R. G. 129
Fischer-Colbrie R. 245
Fiszer de Plazas S. 381
Fontana M. 547
Frias J. 605

Geary K. 425
Glover V. 321
Godfrey P. P. 515
Goldstein M. 291, 343
Gonçalves P. P. 401
Gould R. M. 599
Grahame-Smith D. G. 515

Hagihara M. 625
Haglid K. 331
Hájek I. 53
Halket J. 321
Hamano S. 21
Handke A. 239
Helle K. B. 165
Herken H. 223
Herrera A. J. 415
Hertting G. 149
Himms-Hagen J. 271
Hökfelt T. 343
Hornykiewicz O. 263
Hoss W. 9

Ishii A. 625
Ito J. 93, 559
Iuvone P. M. 117
Iversen P. L. 441

Janssens de Varebeke Ph. 325
Johnson Butler B. 117
Johnston G. A. R. 43
Jolles J. 27
Jones S. E. 495

Kan J. P. 457
Kaneda N. 625
Karlsson J.-O. 487
Kato T. 93, 559
Kewitz H. 239
Kinemuchi H. 59, 587
Kisara K. 587
Kiuchi K. 625
Koenig H. L. 573
Kohsaka S. 625
Kuffler D. P. 157

LeBel C. P. 435
Li Y.-P. 389
Limberger N. 129
Lin C. T. 449
Lin T.-N. 529
Liu J. Y. 449
Lombardini J. B. 389

Machado A. 415
Malgat M. 83
Markerink M. 27
Marsal J. 107
Martin J. 615
Matsuura S. 625
Maurice A. 83
McKee M. 615
Miras-Portugal M. T. 523
Missiaen L. 297
Mitridate de Novara A. 381
Monsma F. J. Jr 9
Morita K. 21
Muramatsu M. 67
Muscholl E. 189

Nagatsu T. 625
Nakamura Y. 59
Nakaya K. 59
Nakov R. 149
Neal M. J. 495
Ngoc-Anh Do Thi 573
Nicholls J. G. 157
Nilsson E. 487
Nilsson O. 331

Oka M. 21
Okumura-Noji K. 559
Ortega E. 605
Osborne N. N. 177
Oyama K. 587

Pafrey H. 515
Paliwal V. K. 441
Piciotti M. 573
Pietrzak E. R. 593
Pifl C. 263
Pioro E. P. 205
Pleul O. 239
Porzig H. 197
Przyborowska A. 321

Rahmann H. 609
Rao T. S. 1

Rausch W. D. 325
Reber B. F. X. 197
Regunathan S. 481
Reuter H. 197
Ribeiro-da-Silva A. 205
Riederer P. 325
Rodriguez E. 605
Rosenstein R. E. 373
Rost K. L. 239
Roth R. H. 509
Ruiz E. 605

Sánchez Arroyos R. 107
Sandler M. 321
Santiago M. 415
Santos M. S. 401
Satoh N. 587
Satoh S. 587
Schallauer E. 325
Schalling M. 343
Schiffmann S. N. 101
Schingnitz G. 263
Schömig E. 139
Schönfeld C.-L. 139
Schulze G. 281
Se Kyung Kim 59, 587
Sen R. P. 523
Shanley B. C. 593
Shirane Y. 59
Sigurdson S. L. 271
Slenzka K. 609
Solinas S. P. 547
Soubrié P. 457
Sourkes T. L. 481
Spence I. 43
Speth R. C. 475
Sprouse J. S. 509
Starke K. 129
Sun G. Y. 529
Suzuki T. 559
Szczesny P. J. 495

Tadano T. 587
Taghavi Z. 515
Tamura C. S. 475
Tanaka R. 93, 559
Teisinger J. 53
Teraoka K. 21
Toya S. 625
Trendelenburg U. 139
Trouillet V. 573
Tsai W. H. 449
Uchida K. 625
Usuki-Ito C. 67

Vanderhaeghen J.-J. 101
Vauquelin G. 537
Vesci L. 547
Vidal C. J. 35
Vizuete M. L. 415

Wängberg B. 331
Watkins P. 321
Wilce P. A. 593
Winkler H. 245
Wood P. L. 1
Wood-Gush H. G. 495
Worms P. 457
Wu J.-Y. 449
Wurster S. 149

Yoa F.-G. 529
Youdim M. B. H. 325

Zingoni J. 15

SUBJECT INDEX

acetylcholine turnover - effect of NGF, 239
acetylcholine - effect of NGF, 239
acetylcholine - release from striatal cells by EAAs, 107
acetylcholinesterase - effect of NGF, 239
acetylcholinesterase - interaction with lectins, 35
adenosine transport - effect of forskolin and C-AMP analog, 523
adenosine transport - in chromaffin cells, 523
adenylate activity - effect of ethanol and aging, 593
adrenal gland - catecholamine synthesis, 21
α-adrenergic receptors - in frontal cortex, 537
β-adrenoceptors - association with tumour cells, 331
aging - effect on phosphoinositide and adenylate cyclase turnover, 593
agonist effects on calcium entry, 297
amino oxidase inhibitor - 3,5-ethoxy-4-aminomethylpyridine, 215
6-aminonicotinamide - effect on dopamine, 223
amphetamine metabolites - effect on MAO-A, 587
anesthesia - mechanism, 15
anesthetics - restructure hydrogen belts in membranes, 15
angiotensin II - effect on phosphatidylinositide hydrolysis, 475
anterograde axonal transport, 487
ATP - cotransmitter with noradrenaline, 357
ATPases, 248
axonal transport - of calpain I and II, 487
B24 - 3,5-ethoxy-4-aminomethylpyridine, 215
bioflavonoids - catecholamine synthesis, 21
biogenic amines - in brain areas of old rats, 281
biogenic amines - levels in hypoxia, 281
biopterin synthesis - neurotoxin effects, 223
biopterin - in dopamine synthesis, 223
brown adipose tissue - sympathetic and sensory nerves, 271
calcitonin gene related peptide (CGRP) - in brown adipose tissue, 271
calcium activated magnesium dependent ATPase - effect of gangliosides, 609
calcium channels - and serotonin-N-acetyltransferase activity, 117
calcium entry - agonist induced, 292
calcium entry - receptor mediated, 299
calcium entry - voltage gated, 298
calcium uptake - in synaptosomes, 615
calcium - cytosolic, 615
calcium - entry into muscle cells, 297
calcium - in synaptosomes, 615
calcium - intracellular concentration, 197
calpain - anterograde axonal transport, 487
capsaicin - action on nerves innervating brown adipose tissue, 271
capsaicin - desensitization, 271
carbachol - effect on inositol phosphates, 515
carboxymethylcysteamine - displaces GABA binding, 547
carboxypeptidase H, 248
carcinoid tumour cells - in culture, 331
catecholamine metabolism - effect of neonatal enucleation, 415
catecholamine metabolism - in developing brain, 415

catecholamine synthesis, 303
catecholamine - biosynthetic activity in adrenal gland, 21
catecholamine-synthesizing enzymes, 291
ceramide-phosphoethanolamine - synthesis, 83
channels - sodium, 467
choline intermediates - in visual system and peripheral nerve, 599
chromaffin cell cultures - catecholamine synthesis, 21
chromaffin cells - adenosine transport, 523
chromaffin granules - membrane proteins, 245
chromogranins - secretory proteins, 165
corticopropin releasing factor - effect on median eminence, 605
corticotropin releasing factor - effect on gonadotropin, 605
cotransmitters - noradrenaline and ATP, 357
cytochrome b-561, 246
cytosolic calcium - effect of oxidative stress, 615
C-AMP analog - effect on adenosine transport, 523
C-AMP levels - effect of depolarizing agents and transmitters, 425
C-AMP levels - regulation in retina, 425
C-AMP turnover - effect of odorants, 553
C-AMP - regulation in retina, 425
diazepam - effect on GABA binding, 381
3,4-dihydroxyphenylacetic acid (DOPAC) content - in monkey striatum, 265
L-3,4-dihydroxyphenylalanine (DOPA) - effect of tetrahydrobiopterins on levels, 625
dopamine content - in monkey striatum, 265
dopamine release - from PC12 cells, 197
^{3}H-dopamine release - involvement of intracellular calcium, 197
dopamine synthesis - biopterin requirement, 223
dopamine synthesis - effect of 6-aminonicotinamide, 223
dopamine synthesis - in striatum, 308
dopamine synthesis - regulation, 311
dopamine - effect of MPTP, 263
dopamine - effect on phosphoinositide hydrolysis, 77
dopamine - in brain increased by milacemide, 325
dopamine-β-hydoxylase - in chromaffin granules, 246
dopamine-β-hydroxylase, 293
endocrine vesicles - membrane proteins, 245
enucleation - effect on catecholamine and serotonin metabolism, 415
ethanol - effect on phosphoinositide and adenylate turnover, 593
ethanolamine glycerophospholipid turnover - in trembler dysmyelinating mutant,573
3,5-ethoxy-4-aminomethylpyridine - amino oxidase inhibitor, 215
N-ethylmaleimide - effect on noradrenaline release, 149
excitatory amino acids - release ACh, 107
fluoxetine - effect on serotonin release, 509
forskolin - effect on adenosine transport, 523
forskolin - effect on serotonin levels, 183
free radical formation, 435
GABA binding - developmental, 381
^{3}H-GABA binding - displacement by sulfur analogues, 547
GABA binding - effect of diazepam, 381
GABA binding - effect of lead, 43
GABA binding - in developing brain, 43
GABA mechanisms - relationship with melatonin, 374
GABA - modulates release of ACh by EAAs, 107
GABA - regulates ACh release, 107
^{3}H-GABA - release, 401
^{3}H-GABA - transport, 401
GABAergic mechanism, 373
GABA-immunoreactivity - in human CNS, 101
gangliosides - effect on calcium activated magnesium dependent ATPase, 609
glia maturation factor - stimulates phosphorylation of proteins, 559
glioblasts - phosphorylation of proteins, 559
glioma cells - synthesis of sialosyl cholesterol, 93

L-glutamate decarboxylase - purification, 449
glycoprotein II, 247
glycoprotein III, 248
gonadotropin - effect of corticotropin releasing factor, 605
hippocampus synaptosomes - release of noradrenaline, 149
homothiotaurine - displaces GABA binding, 547
homovanillic acid (HVA) content - in monkey striatum, 265
hydrogen belts - effect of anesthetics, 15
p-hydroxyamphetamine - effect on MAO-A, 587
p-hydroxynorephedrine - effect on MAO-A, 587
hypoxia - biogenic amines, 281
^{3}H-idazoxan - analog for ^{3}H-RX 821002, 537
immunoaffinity - purification of L-glutamate decarboxylase, 449
inositol 1,4,5-trisphosphate - effect of carbachol, 515
inositol polyphosphate formation - effect of lithium, 515
inositol tetrakisphosphate - effect of carbachol, 515
inositol triphosphate turnover - effect of odorants, 553
isatin - in brain, 321
lateral geniculate - monoamine metabolism, 415
lead - effect of GABA binding, 43
lectins - interaction with acetylcholinesterase, 35
lithium - efect on inositol phosphate production, 515
MAO-A inhibited - by amphetamine metabolites, 587
MAO-A - in serotonergic synaptosomes, 587
MAO-B - action of milacemide, 325
median eminence - effect of corticotropin releasing factor, 605
melatonin activity, 373
melatonin - effect on GABAergic function, 374
melatonin - role, 373
membranes - effect of anesthetics, 15
metallothionein isoform - in CNS, 441
3,4-methylenedioxymethamphetamine - releases serotonin, 509
α-methylserotonin - stimulates phosphoinositide breakdown, 481
1-methyl-4-phenylpyridinium ion - see MPP^{+}
1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine - see MPTP
milacemide - increases serotonin but not dopamine, 425
milacemide - inhibitor of MAO-B, 325
^{3}H-minaprine binding - to rat brain, 67
minaprine - antidepressant agent, 67
monoamine oxidase - see MAO
MPP^{+} - and tetraphenylboron on respiration, 59
MPP^{+} - effect on mitochondrial respiration, 59
MPTP - effect on dopamine in the striatum, 263
mRNA - of zinc metallothionein II, 441
mRNA - retinal, 495
muscarinic receptors - desensitization, 9
muscarinic receptors - effect of tetrahydroaminoacridine, 457
muscarinic receptors - phosphoinositide turnover, 9
muscarinic receptors - subtypes, 457
Na^{+},K^{+} ATPase - effect of opioids, 53

neradrenaline - release, 139
nerve growth factor receptor-like immunoreactivity, 205
nerve growth factor - effect on cholinergic system, 239
nerve growth factor - receptor, 205
Nerve growth factor - see also NGF 239
nerve growth immuoreactivity - in tumour cells, 331
neuropeptide Y - effect of reserpine, 349
NMDA receptors, 1
NMDA receptors - coupling to PCP receptors, 1
noradrenaline release - effect of N-ethylmaleimide, 149
^{3}H-noradrenaline release - from synaptosomes, 149
noradrenaline release - presynaptic control, 189
noradrenaline re-uptake - mechanism, 139
noradrenaline synthesis - regulation, 312
noradrenaline - cotransmitter with ATP, 357

noradrenaline - role of vagus in release, 189
noradrenaline - uptake, 139
NRK fibroblasts, 625
N-methyl-D-aspartate, see NMDA
odorants - effect on second messenger pathways, 553
p29 protein, 252
p65 protein, 251
Parkinson syndrome, 223
PC12 cells - release of dopamine, 197
peptidyl α-amidating monoxygenase, 249
phenyclidine receptors, 1
phenycyclidine receptors - coupled to NMDA receptors, 1
phenylethanolamine-N-methyltransferase, 294
phenylethanolamine-N-methyltransferase mRNA - in adrenal glands, 343
phenylethanolamine-N-methyltransferase - influence of steroids, 343
phenyl-N-methyltransferase - effect of reserpine, 349
phosphatidic acid - formation, 27
phosphatidylethanolamine-ceremide-ethanolaminephenylphospho-
transferase - synthesis of ceramide-phosphoetholamine, 83
phosphatidylinositide hydrolysis - effect of angiotensin II, 475
phosphoinositide breakdown - effect of α-methylserotonin, 481
phosphoinositide hydrolysis - effect of dopamine, 77
phosphoinositide turnover - association with muscarinic receptors,
phosphoinositide turnover - effect of ethanol and aging, 593
phosphorylation of proteins - inhibited by taurine, 389
photoreceptors - enriched retinal cell cultures, 117
pineal - melatonin, 373
polyphosphoinositide formation - in brain, 27
poly-phosphoinositides - dehydration in brain
following decapitation, 529
poly-phosphoinositides - in brain subcellular membranes,529
potassium-evoked depolarisation - effect on
serotonin-N-acetyltransferase activity, 117
presynaptic control - of noradrenaline release, 189
presynaptic release - of serotonin, 157
quantal release - of serotonin, 157
release - of GABA, 401
reserpine - effect on neuropeptide Y, 349
reserpine - effect on phenyl-N-methyltransferase, 349
reserpine - effect on tyrosine hydroxylase, 347
retina - regulation of C-AMP, 425
retina - serotonin neurones, 177
retinal mRNA - in retinitis pigmentosa, 495
retinitis pigmentosa - retinal mRNA, 495
re-uptake - of noradrenaline, 139
^{3}H-RX 821002 - 2-methoxy analog of ^{3}H-idazoxan, 537
^{3}H-RX 821002 - binding to α_2-receptors, 537
^{3}H-saxitoxin - binding, 467
secretogranin II - chromogranins, 165
semicarbazide-sensitive amine oxidases, 215
serotonin levels - influenced by serotonin, 183
serotonin metabolism - effect of neonatal enucleation, 415
serotonin metabolism - in developing rat, 415
serotonin neurons - in the retina, 177
serotonin release - effect of fluoxetine, 509
serotonin release - effect of tryptophan, 509
serotonin release - from tumour cells, 331
serotonin release - induced by 3,4-methylenedioxymethamphetamine, 509
serotonin synaptosomes - contain MAO-A, 587
serotonin - quantal release, 157
serotonin - release, 129
serotonin - release from presynaptic terminals, 157
serotonin-N-acetyltransferase activity -
in photoreceptors of retina, 117
serotonin-N-acetyltransferase activity -
involvement of calcium channels, 117

sialosyl cholesterol - induces growth inhibition, 93
sialosyl cholesterol - synthesis in glioma cells, 93
sodium channels - in synaptic endings, 467
sodium/potassium ATPase - effect of opioids, 53
steroids - effect of phenylethanolamine-N-methyltransferase mRNA, 343
stress - effect on cytosolic calcium, 615
substance P - in brown adipose tissue, 271
SV2, 251
synapsin, 250
synaptic plasma membranes, 401
synaptic vesicles - membrane proteins, 245
synaptobrevin, 252
synaptosomal respiration - by MPP^+, 59
synaptosomes - calcium uptake and cytosolic levels, 615
synaptosomes - containing serotonin, 587
synaptosomes - formation of oxygen reactive species, 435
synaptosomes - of insects, 467
synaptosomes - releaase of noradrenaline, 149
synaptosomes - sodium channels, 467
taurine - inhibits phosphorylation of endogenous proteins, 389
tetrahydroaminoacridine - effect on muscarinic receptors, 457
tetrahydrobiopterins - effect of DOPA, 625
tetraphenylboron - and mitochondrial respiration, 59
thiotaurine - displaces GABA binding, 547
trembler dysmyelinating mutant - phospholipid turnover, 573
tryptophan - effect on serotonin release, 509
tumour cells - presence of nerve growth factor immunoreactivity, 331
tumour cells - release of serotonin, 331
tumour cells - β-adrenoceptors, 331
tyrosine hydroxylase type 2 cDNA, 625
tyrosine hydroxylase - activation, 305
tyrosine hydroxylase - effect of reserpine, 347
tyrosine hydroxylase - phosphorylation, 307
tyrosine-hydroxylase, 291
vagus - role in release of noradrenaline, 189
vesicle proteins, 251
vesicles - release and transport of GABA, 401
visual cortex - monoamine metabolism, 415
zinc metallothionein II - mRNA, 441
zinc - metallothionein II, 441